



President's Message

by Tom Kinahan, N1CPE

Around the time you get this newsletter, we will be in the process of or shortly after doing our special events station for the bicentennial of the U.S. Constitution. To my knowledge, we are one of 6 stations in Massachusetts and one of 4 in eastern Massachusetts to have the privilege of modifying their callsigns replacing the 1 in W1TKZ with 200, signifying the 200th anniversary of the Commonwealth's ratification of the Constitution.

Operation on February 6th from Constitution Wharf in Charlestown and from Wellesley on February 7-11 from the club station in Wellesley.

I hope you worked W200TKZ during this time. A report on the full operation will come out next month.

In our conversations with the National Park Service regarding the event, we noticed an overwhelming desire to work closely in the future. We should seize the opportunity and work closely with these people in the future. Ideas that came up were: operate a message fair over the July 4th holiday, while nearly a million people are expected to visit the wharf, and they turn the U.S.S. Constitution around. Helping to refurbish and make operational the radio room of a WWII Cruiser

that is at the Wharf available for tours. Operate the radio room on amateur frequencies at a regular basis, and when the ship takes it's yearly cruise.

You see, we have many interesting ideas for future operations and we hope you all get involved.

It's not too early to plan for the June VHF Contest and Field Day. How many transmitters should we operate this Field Day? Give me a call, let me know how you feel about all this. Call me at 877-3456 or on the repeater.

73, Tom Kinahan N1CPE

FCC EXAM SESSION

The Wellesley ARS will sponsor an FCC Exam session on Saturday May 14, 1988 at 10:30 AM at the Wellesley Red Cross Building. All classes of exams, from Novice to Extra, will be given.

Now is the time to start planning for that Spring upgrade! Get those new privileges in time for the Spring contest season and Field Day.

Candidates are urged to register by calling Tom Kinahan, N1CPE at 877-3456. We have given you plenty of time to prepare, so dig out the books!

If you upgrade to Extra, then you can help us out by becoming a volunteer examiner!!!!!!

Membership List

You'll notice that this issue contains the present membership list. If the information on you is incorrect, please drop a note to us at the club address, or get something on paper to us at a club meeting. My memory isn't doing to well these days. Please use discretion with this list. It is printed as a service to members to contact other members.

MEETINGS THIS MONTH: _____

March 3, 1988 at 7:30 P.M.

March 17, 1988 at 7:30 P.M.

211 Washington St., Wellesley

Al Graf Memorial WAS

The following are the details of the WARS 10 meter WAS contest.

Dates : 0000z March 1 to 2359z June 30, 1988

Object : To work as many states as possible on 10 meters in the prescribed time.

Verification : Log entries are acceptable, with operator certifying that the log is accurate and complete, and that the operator has obeyed the laws applicable to amateur radio operation in the United States.

Scoring : One point for each state in the United States contacted in the given time period. In the event of a tie, the first person to have contacted their last state is the winner.

Who is eligible : All Wellesley Amateur Radio Society Members are eligible to compete providing they have a minimum of a Novice license. Only contacts on 10 Meters are allowed but can be any mode and must be made without the aid of a repeating device such as a repeater or digipeater.

Contestants agree to be bound by the decisions of the Wellesley Amateur Radio Society's contest committee.

Logs of the callsign, mode, date/time and state must be submitted to the Wellesley A.R.S. Contest committee no later than July 31, 1988.

Submit logs to : Wellesley A.R.S. Contest Committee, c/o Harry McDade, W1LMU, 211 Washington St. Wellesley, Ma. 02181. Aids such as state maps and official log sheets will be available at the above address for an SASE.

Calendar !!!

- Feb 4 : W.A.R.S. Meeting ... 7:30 P.M. ... Wellesley Red Cross.
- Feb 18 : W.A.R.S. Meeting ... 7:30 P.M. ... Wellesley Red Cross. Mort Cohan, KA1IU on RTTY Demodulators.
- March 3 : W.A.R.S. Meeting ... 7:30 P.M. ... Wellesley Red Cross.
- March 17 : W.A.R.S. Meeting ... 7:30 P.M. ... Wellesley Red Cross. Barry Porter, KB1PA SM

and SEC for Eastern Mass. on Emergency Communications.

Field Day !

Yes, the sun will shine again some day. There will be warm afternoons in shirt sleeves and outdoor barbecues. The sun will set at 8 PM and the flowers will bloom.

Now that we have your attention, turn the calendar all the way to June and mark-off the entire last weekend of the month. Do it right now! There can't possibly be anything written there yet.

It wasn't your run-of-the-mill field day last year, right? That's because nearly everybody 'owned' the event. Many people were responsible for a rig and antenna and we all worked together to pull it off. Congratulations! Now didn't we have fun? Want to try it again?

There is a little bit of time left to build that special antenna you've always been thinking about. (KA1IU Did!) Maybe you've heard something about packet radio and want to operate the W1TKZ/FD packet position. Field Day is lots more fun than mowing the lawn or painting the house.

So why not consider adopting a Field Day band? Pick your favorite band and mode. N1CPE promises that if at least 12 people volunteer, he will guarantee perfect weather. (Sorry Tom) Think about it.

Vern Valero ND1Z 617-533-6822

Skitrek

There is a joint USSR and Canadian venture to ski from the Soviet Union to Canada across the North pole. Amateur radio is playing a major part in the trek, in that the major means of communication with the group is by ham radio. Most communications, we understand, will be relatively low power and on the 75 meter band. However, an unprecedented reciprocal licensing agreement and third party traffic agreement have allowed Canadian operators to operate in the Soviet Union, and Soviets to operate in Canada, and relay information between countries freely. The part that all of us can participate in is the UO-11 digitalker, a synthesized voice in UO-11.

The Spark Gap

Official Journal of the Wellesley Amateur Radio Society

Editor :

Jon Freeman, KC1FD

47 East Meadow Road

Lowell, Ma. 01854



The Spark Gap is a monthly publication of the Wellesley Amateur Radio Society, its sole purpose is to keep its members abreast of current happenings, FCC rule & regulation changes and to list equipment offered for sale or trade by members. Members are encouraged to contribute to the Spark Gap and may send their articles to the Editor's address or to the club address. Items printed in the Spark Gap may be reprinted by other Amateur Radio publications provided the author and the Spark Gap are given credit.

The Wellesley Amateur Radio Society is dedicated to the promotion of Amateur Radio through instruction, fellowship, demonstration and participation. Annual membership in the society is \$15 and the club year runs from September 1 through August 31. Amateur Novice through Advanced classes are conducted regularly at no cost. To enroll in a class or gain information about the Society in general, write :

The Wellesley Amateur Radio Society

211 Washington Street

Wellesley, Ma. 02181



will transmit the latitude and longitude of the expedition team as they cross the North Pole. This will primarily be used by the team to determine where they are, but can be used by all of us by tuning into 145.825 MHz FM with our HTs or scanners or rigs starting at about March 1st for 90 days.

The Skitrek team will carry SARSAT locator transmitters which will locate them and the location will be uplinked to UO-11 on a regular basis. No special antennas are needed, but an outdoor antenna is preferred. Just keep listening to 145.825 and when the satellite passes, you'll hear the location of the team.

Tom Kinahan, N1CPE

W.A.R.S. Exam Sessions

We have conducted about a half-dozen FCC exam sessions over the past couple of years. It is a public service to the amateur community as well as to the would-be amateur community in the southern 128-to-495 communities. Besides, an exam session is lots of fun, especially when candidates are well prepared and

upgrade.

I would like the membership to consider supporting a regular schedule of FCC Exams in Wellesley. A monthly schedule is too demanding and I do not believe that the supply of candidates is large enough for monthly exams. However, I think that a quarterly (every 3 months) schedule would be just right.

A successful quarterly schedule takes a few things. We need a consistent site, plenty of candidates, and manpower.

Believe it or not, there are tons and tons of candidates seeking exam opportunities. (Some people do not yet realize that they are potential candidates!) A problem is that they do not know how to find us. CQ and WorldRadio magazines have announced our exam sessions in the past. Although QST does not announce sessions, the ARRL will send a computer printout of exam sessions to individuals upon request. Packet radio and voice repeaters have become a popular outlet for advertising exam sessions. Finally, the local newspapers have helped us out a little with publicity.

Manpower is indeed a critical issue. We need a minimum of three ARRL VEC accredited volunteer examiners for an exam. We also need folks to help with a 2 meter talk-in, set-up tables, get candidates seated, etc.

Please consider volunteering to help with an exam session, even if you do not hold an Extra license or are VEC accredited. The more folks that are on the team to help out, the smoother things will go.

OFFICERS

President

Tom Kinahan, N1CPE, 877-3456

Vice President

Rita Baker, N1DDI, 481-0863

Recording Secretary

Roger Smith, W1EOA, 235-6239

Corresponding Secretary

Kathy Pate, KA1IYR, 785-1801

Treasurer

C.J. McDonald, WB1BUM, 332-6091

Fund Raising

David Kent, N2AWG, 875-2126

Operations Chairman

Vern Valero, ND1Z, 533-6822

We desperately need more volunteer examiners. In fact, I predict that we need at least two more volunteer examiners to establish a healthy exam program. Currently we have four active examiners. However, this leaves no room for illness or NG1I's being called out suddenly on police business. So please, if you have an Extra license and have a desire to help folks upgrade, consider becoming ARRL VEC certified. Contact the ARRL, ND1Z, or N1CPE for details.

One of the most important goals of the Wellesley ARS is to serve the public. If we can establish a consistent FCC exam schedule, it will help folks in our area and add to our outstanding reputation.

Vern Valero, ND1Z
617-533-6822

Letter To The Editor

Dear Spark Gap Editor:

On behalf of the world-wide radio amateur population, I would like to thank you for not exposing my identity as one of the W.A.R.S poet laureates.

Your kindness has saved me from a planned hiatus to the Nevada desert. Now I can remain in Massachusetts and continue to spout literature.

I will produce no more poetry. Indeed, I have begun my first novell It is set in the green Vermont hills and involves a semi-annual competition of mind, body and soul. Perhaps it shall be entitled: "Incident At Equinox".

Anonymously Yours,

I. M. Looney, Esq.

Worked All Planets Award

The Interplanetary Amateur Radio Union (IARU) has announced its offering of a new award — The Worked All Planets Award! Any amateur who can submit QSL cards for QSO's with QTH's named for the planets is eligible to receive this colorful and stunning plaque.

RULES:

1) QSL cards for the following QTH's qualify:

Mercury, Nevada	Venus, Texas
	Venus, Virginia

Earth, California (San Joaquin County)
Earth, California (Solano County)

	Jupiter, Florida
Mars, Quebec	Jupiter, Rhode Island (rare!)
Mars, France (Champs-De-Mars)	

Saturn, New Mexico	Uranus, New Jersey
Saturn, Utah	
Saturn, Colorado	
Saturn, Arizona (The only point where 4 planets meet!)	

Neptune, North Dakota	Pluto, District Of Columbia
Neptune, Ohio	
Neptune Island & Rocks, Pacific Ocean	

2) QSO's from extraterrestrial locations
MUST BE verified by QSL card.

3) QSO's through repeaters or phone patches
are not allowed, but Moonbounce, Sunbounce,
and SuperNova Bounce ARE allowed.

June VHF Contest

Reserve the weekend of June 11 and 12 for the June VHF Contest. This is one of our largest efforts throughout the year when we operate 6 meters through 10 GHz from Mt. Equinox, Vermont. As part of the contest effort we will take all the antenna systems and radio systems up to Mt. Equinox (we need vans and trucks too) assemble them on 4 or 5 towers, and be on the air for the start of the contest at 2pm on the 11th. Many of us will leave for the mountain on Friday the 10th and stay for take down on Monday the 13th. You if you don't have a SSB or CW radio for VHF, don't worry, come on up and operate, if you do, please let us know, we can always use more rigs.

If you're worried about accommodations, don't be. There is a hotel, bar, and restaurant up on the mountain. Accommodations are also available in the valley.

Also, while we are up on the hill, contesting, the Vintage Sports Car Club of America will hold it's annual Mt. Equinox Hill climb. We also need operators with 2m FM equipment for safety communications in the race.

FCC News

United Parcel Service has filed late comments on General Docket 87-14 favoring the reallocation of 220-222 MHz to the Land Mobile radio service using narrowband communication. They plan to operate a nationwide data network on these frequencies to

dispatch their fleet to pick up and drop off packages.

They have formed a subsidiary to design and manufacture the system and have contracted with SEA Inc. for the rights to their ASCB technology. The fact that the comments were late is interesting, in that the FCC can, if they choose to, simply ignore them, or consider them. The fact that UPS is a very large corporation, leads some to believe they may just get considered. Obviously, this is not good news to hams these days.

At the present time, there are a few vacancies among FCC commissioners. Final decisions are expected this year, but it's unclear if the vote will be taken with the FCC missing some commissioners or after, or how new appointments will affect the decision.

Regulations and Allocations

From W5YI Report March 1, 1988

A primer on Spectrum management.

Since radio waves do not respect international boundaries, coordination among nations, radio services and stations within each service is required if operation is to remain interference free. Radiocommunication regulation in every nation is a government function.

The 150+ nation strong International Telegraph Union (ITU) was formed in 1865 to extend telegraphy circuits across national borders. Telegraph operators used to physically hand carry their messages to their counterparts at their national borders. Telegraph was changed to Telecommunication in 1932 to reflect expanded communication technology. In 1947, the ITU became a United Nations agency and moved from Berne to Geneva, Switzerland.

Delegations from the ITU nations meet periodically to insure international telecommunications order. The ITU allocation plan divides the world up into three geographical regions. North and South America are in region 2. Their regional and international conferences conclude with agreement on where specific types of operation will take place. Without this agreement, you wouldn't be able to communicate internationally by ham radio. The last general overhaul of the radio spectrum took place in 1979 at the World Administrative Radio

Conference.

Administrations can get around internationally agreed upon spectrum allocations by invoking the legal maneuver of "taking an exception" at these conferences. Thus no country is really bound by any ITU agreement if they feel it is not in their best interest. Even if a nation fails to take an "exception", there is an escape clause which allows use of any band for any purpose as long as it does not cause interference to authorized services. Nations have been known to interpret ITU agreements - and what constitutes interference. In the U.S., "Temporary", experimental, National defense, and emergency circuits can be authorized anywhere.

The Basic document controlling telecommunications in the United States is the Communications Act of 1934. It established the Federal Communications Commission, an independent agency charged with administering non-government wire and radio communication. The FCC does not regulate spectrum used by the U.S. government. That is done by the National Telecommunication and Information Administration, NTIA. The FCC allocates the radio spectrum in keeping with international agreement and Part 2 of its rules.

The last international radio conference, WARC-79, had some conditions in the fine print that apparently few amateurs are aware of. They have already shortened the ham bands (160 meters was reduced to make way for expanded AM broadcasting.) The VHF and higher level ham bands are particularly vulnerable. Improvements in satellite and addressable digital technology have transformed what was once considered short range spectrum into extremely valuable worldwide cost-effective data circuits.

Contrary to what you may think, the possibility that the 220 MHz ham band could be reallocated to other services should not have come as a total surprise. In implementing the Final Acts of WARC-79, the FCC said (Docket 80-739, November 18, 1982) that although the ARRL (among others) wanted the international Fixed and Mobile 220-225 MHz allocations deleted, "The current and future spectrum requirements for 220-225 MHz band are undefined at the present time." The Commission further stated their intention to conduct a joint

FCC/NTIA study to develop a permanent allocation for the 220 MHz band.

Docket 87-14 was the result. As you know, the FCC's Office of Science and Technology plans to divvy up the 220-225 MHz band up with three megahertz going to amateurs - and the lower two to Land Mobile narrow-band operation. Fortunately, our three megahertz is where most of the amateur operation and all repeater operation takes place.

The amateur community should also be aware of U.S. WARC Exception No. 38. The United States reserved the right to operate fixed and mobile stations on a primary basis in the 890-960 MHz bands. The sparsely used 902-928 MHz ham band is a shared band... and probably the site of the next spectrum attack.

Celebrating the United States Constitution at the U.S.S. Constitution

When the Wellesley Amateur Radio Society heard about the special 'W200' calls being issued, we naturally wanted to be part of it. We took note of the fact that it should reach many people and started brainstorming about how to reach many people. We were looking for a gimmick, something to catch the public's eye yet still be symbolic of the Bicentennial of the United States Constitution. We tossed around things like operating from the Massachusetts State House, the Boston City Hall, but none of us really had any political connections. Finally, one member Bill Hanlon, N1ADY thought out loud, 'Why not from the U.S.S. Constitution?'

Why not indeed. We then began the process of finding out who to approach about getting a little space on or near the U.S.S. Constitution. In the mean time we got approval to operate the club station, W1TKZ as W200TKZ from 2 specific locations, the club station in Wellesley, and 'Near the U.S.S. Constitution, Boston, Massachusetts'.

The U.S.S. Constitution is the oldest commissioned ship in the U.S. Navy. First launched in 1797 she served in the war of 1812 where she gained the nickname 'Old

Ironsides'.

Approval came in from the ARRL and FCC, and that was all set, and finally, just 3 weeks before the event was to take place, approval to operate from the Visitors Center on Constitution Wharf. We talked it up on local repeaters, on HF nets, on international computer networks, and finally did it.

We were located on the second floor of a building, in an area that formerly was an Officers club for the Navy. Six massive bay windows looking out onto the snowy pier with the U.S.S. Constitution tied up. The Boston Harbor, and the Boston skyline also graced the view.

Here we were, on this historic site, where the British first landed to fight the battle of Bunker Hill graced by the beauty of the oldest and classiest commissioned ship in the United States Navy. On this location, the Wellesley Amateur Radio Society operated W200TKZ celebrating the 200th anniversary of the United States Constitution. It was no accident that exactly 200 years ago, to the day, on February 6, 1788 that the Commonwealth of Massachusetts ratified the United States Constitution on the conditions that a Bill of Rights be passed to guarantee additional rights. Massachusetts was the 6th state to ratify the Constitution.

W200TKZ managed to work approximately 200 stations, stopping to chat with each one, explaining where we were and why, using a complement of dipoles and mobile antennas, operated SSTV, AMTOR, RTTY CW and SSB on 40, 20, 15 and 10 meters.

We had visitors to the station from as far away as Austria. Some in fact operated a little third party from the station.

The Club station W200TKZ operated for the rest of the week from the club station in Wellesley. From here a total QSO total of approximately 300 were obtained.

This was a real coming together of the ham radio community. More members showed to operate than our 15A Field day last year. Of course all hams were invited to help out, and many non-members did also.

Our next major task is to send QSLs to all a pile of

about 200 cards already received.

A big thank you goes out to the United States National Park Service at the Charlestown Navy Yard for their allowing us to use their facilities. To Mort Cohan KA1IU, who gained Park Service approval. To Dave Crocker W1TMO, of Crockergraphics in Needham who spent valuable time on making excellent badges for us to identify ourselves with. And to all the people that helped out operating W200TKZ : Jerry Driscoll KA1000, Larry Leblanc WA1MWF, Barry Kasindorf WA1YDL, Jed Weare NF1Z, Vern Valero ND1Z, Rita Baker N1DDI, Bill Baker KA1NKJ, John Stacy W1KIM, Diane KA1NOJ, Dave N1FJQ, Nate Keedy N1BNN, Mort Cohan KA1IU, Stan Waugh N1EHG, Charlie Stevens KA1DHV, Harry McDade W1LMU, Bill Knowles KA1QWE, Roger Tobin N1EYZ, Tim Cadigan (awaiting call), Nels Anderson K1UR, Mark Nelson AJ2X, Tom Kinahan N1CPE.

Nominations for Office

Yes, its time to think about election of club officers this time of year. Please think about who you would like to be your club officers for next year. Nominations are now open for President, Vice President, Corresponding Secretary, Recording Secretary, Treasurer, Operations Chairman, and Fund Raising Chairman.

Don't be afraid to nominate yourself if you like. Please send nominations to Wellesley A.R.S., Election Committee, 211 Washington St. Wellesley, Ma. 02181. We'll have more formal nominations before the March 18th Meeting with elections being May 5th, 1988.

Newsletter Editor

We're looking for a new editor for the Spark Gap. Jon Freeman, our present editor is resigning those duties effective the next club year. Please make yourself known if you are interested, so we can continue the fine tradition of having one of the finest radio club newsletters in New England.

Speakers

Barry Porter, KB1PA, will present a talk on March 17 at the W.A.R.S. meeting on Emergency Communications.

We also have a talk scheduled for the April 15th

W.A.R.S. meeting on a DXpedition to St. Pierre Island.

Amateur Radio FCC Exam Opportunity

Wellesley Amateur Radio Society will sponsor an FCC exam on May 14, 1988 at 10:30 AM at The Wellesley (MA) Red Cross Bldg near the intersections Of Rtes 9 And 16.

All Classes Of Exam From Novice To Extra. Start Studying Now !!! Tell Your Friends !!!

Contact Vern Valero, ND1Z 617-533-6822
By May 7, But Book Early To Get A Seat!!!

Good Luck !!! de Vern ND1Z

QSL Cards

Time to order your official W.A.R.S. QSL cards !!! Once again the card design is included with this month's issue. The cards will be printed using black on light blue color stock. The price schedule is listed below :

Qty	Price
300	\$18
600	\$34
900	\$48
1200	\$60

Please makes checks payable to The Wellesley Amateur Radio Society. With your order fill out a piece of paper with the following information :

1. Call Sign.
2. Name, 1 line maximum at a maximum of 24 characters. Characters include spaces and punctuation.
3. Address, 3 lines maximum at a maximum of 27 characters per line. Characters include spaces and punctuation.
4. (Optional) Other personal information, 1 line at a maximum of 25 characters. Characters include spaces and punctuation. This will be placed below the report form and will be right justified with the report form box. Examples : Grid squares, CQ zone, organizations, awards, etc.

Please send your check and order form to The Wellesley Amateur Radio Society, 211 Washington Street, Wellesley, Ma., 02181. We encourage that everyone plan to pick their orders up at the W.A.R.S. meetings (or have a friend pick them up for you). However, if this is impossible, please include \$3.00 for postage and

February Spark Gap ?

We regret that the February issue of the Spark Gap was not published ! Due to a busy schedule beyond our control we were not able to get the February issue out in time. However, this issue includes both February and

March, Spark Gap material.

Wellesley Amateur Radio Society Members, 01/19/88

MIKE ADLERSTEIN, 24 BOBOLINK ROAD, WELLESLEY, MA 02181	E K1FB 235-1130
NELS ANDERSON, 92 BISHOP DRIVE, FRAMINGHAM, MA 01701	E K1UR 872-5259
JOHN H. ANTES, 11 OLD FARM CIRCLE, WAYLAND, MA 01778	A KB1EB 358-2571
WILLIAM BAKER, 34 CLIFFORD ROAD, SOUTHBORO, MA 01772	N KA1NKJ 481-0863
RITA A. BAKER, 34 CLIFFORD ROAD, SOUTHBORO, MA 01772	T N1DDI 481-0863
RICHARD BLAHA, 2 HARWOOD CIRCLE, NATICK, MA 01760	T KA1LQQ 655-1850
PETER M. BRADLEY, 5 GRANGER ROAD, WESTBORO, MA 01581	E N1ADX 366-2511
THOMAS M. BURTON, 61 WHITTIER ROAD, WELLESLEY, MA 02181	E KX1H 235-6353
JAMES W. CHARBONEAU, CONSTITUTION MARINA, CHARLESTOWN, MA 02129	A KC1BB
WING SHEUNG CHOY, 197 CHISWICK ROAD, BRIGHTON, MA 02135	G KA1BHZ 254-4675
MORTON D. COHAN, 16 ORIOLE ROAD, MEDFIELD, MA 02052	A KA1IU 359-7979
JAN CONNOLLY, 20 TUBWRECK DRIVE, DOVER, MA 02030	N1ENQ 785-0259
KENNETH DIETZ, 13 LIVOLI ROAD, FRAMINGHAM, MA 01701	T N1EZV 877-8013
GERARD DRISCOLL, 101 WHITING WAY, NEEDHAM, MA 02192	N KA1OOO 444-2686
BILL EMERSON, 115 WESTGATE, WELLESLEY, MA 02181	G WA1EVD 235-8086
JOSEPH G. FITZPATRICK, 9 RAGGED HILL ROAD, MILFORD, MA 01757	N KA1PQW 478-6632
JON FREEMAN, 17 EAST MEADOW ROAD, LOWELL, MA 01854	A N1EYU 246-0981
WILLIAM D. FURBISH, 20 LAKEVIEW AVENUE, WALTHAM, MA 02154	G N1EHM 899-6474
EDWARD F. GALLAGHER, 87 BEAUFORT AVENUE, NEEDHAM, MA 02192	A WB1FCZ 449-1718
GEORGE J. GOLDIN, 14 LLEWELLYN ROAD, WEST NEWTON, MA 02165	N KA1LQN 224-6110
DAVID J. GOLDMAN, 26 PRISCILLA CIRCLE, WELLESLEY, MA 02181	G W1YSW 235-6259
MARIO GONZALEZ, 1444 COMMONWEALTH AVE. APT. 1, BRIGHTON, MA 02135	A K2VUI 237-6316
JOSEPH GREEN, 8 WEDGEWOOD ROAD, WELLESLEY, MA 02181	N KA1PPG
NEIL GROSSMAN, 24 CRESCENT ROAD, NEEDHAM, MA 02192	N KA1EAQ 384-8056
LAURA HANLON, 49 VINE STREET, WRENTHAM, MA 02093	384-8056
SALLY HANLON, 49 VINE STREET, WRENTHAM, MA 02093	A N1ADY 384-8056
WILLIAM HANLON, 49 VINE STREET, WRENTHAM, MA 02093	A WB1EDF 603-434-887
MARC HEBERT, 11 REDFIELD CIRCLE, DERRY, NH 03038	WA2TIF 734-1061
ART HOLMES, 48 NORTH AVENUE, MENDON, MA 01756	T KA1JIP 924-4050
GEORGE L. JOUBERT, 37 WILLIAM STREET, WATERTOWN, MA 02172	G KA1LQK 444-1510
MICHAEL J. KARP, 205 NEHOLDEN ST., NEEDHAM, MA 02192	N 449-0154
LEON KAUFMAN, 27 WINFIELD STREET, NEEDHAM, MA 02192	N1BNN 655-2641
NATE KEEDY, 4 MACARTHUR ROAD, NATICK, MA 01760	E WA1YHV 242-0341
KEVIN KELLY, P.O. BOX 308, CHARLESTOWN, MA 02129	E N1CPE 877-3456
THOMAS KINAHAN, JR, 25 QUEENS WAY, APT. 7, FRAMINGHAM, MA 01701	N KB4ELJ
GEORGE KNIGHT, 2100 NURSERY ROAD, APT. E11, CLEARWATER, FL 34624	KA1QWE
BILL KNOWLES, 1444 COMMONWEALTH AVE. APT. 1, BRIGHTON, MA 02135	G WB1CFC 305-499-639
THEODORE LEVIN, 5133-C LAKEFRONT BLVD., DELRAY BEACH, FLA 33484	WA2EHV 235-3303
GREG LIVINGSTON, 27 MORSES POND ROAD, WELLESLEY, MA 02181	E NG1I 655-8775
FRANK MACKENZIE-LAMB, 46 WALNUT STREET, NATICK, MA 01760	E AF1R 449-1227
IAN MACLENNON, 826 WEBSTER STREET, NEEDHAM, MA 02192	G N1EHI
LOUIS MARROTTA, 199 LEXINGTON STREET, WATERTOWN, MA 02172	A W1LMU 527-4269
HENRY J. MC DADE, 194 WINSLOW ROAD, WABAN, MA 02168	N WB1EBW
DENNIS T. MC DONALD, P.O BOX 232, ROADTOWN, TORTOLA, BRITISH VIRGIN ISLANDS	T WB1BUM 332-6091
CHARLES MC DONALD, 48 HALE STREET, NEWTON, MA 02164	

KENNETH W. MC NAIR, 105 BLAKE STREET, NEEDHAM, MA 02192
 DAVID S. MCLELLAN, 77 CHESTNUT STREET, WESTON, MA 02193
 PAUL MONROE, JR, 2269 COMMONWEALTH AVE., AUBURNDALE, MA 02166
 JOHN J. O'BRIEN, P.O. BOX 2219, ABINGTON, MA 02351
 KATHY PATE, 23 BROOKFIELD ROAD, DOVER, MA 02030
 AMERICO PROCOPIO, 17 PEACEDALE CIRCLE, NEEDHAM, MA 02192
 RICHARD RUGGIERO, 11 AVON STREET, NATICK, MA 01760
 DAVID SMITH, 4 BLANCHARD ROAD, CAMBRIDGE, MA 02138
 ROGER P. SMITH, 7 BERKELEY ROAD, WELLESLEY, MA 02181
 JOHN E. STACY, 76 SHERBURN CIRCLE, WESTON, MA 02193
 CHARLES W. STEVENS, 249 MAIN STREET, COCHITUATE, MA 01778
 FRANKLIN H. STUART, 145 PINCHNEY ST. #323, BOSTON, MA 02114
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 ROGER TOBIN, 19 MENDON STREET, UPTON, MA 01568
 RALPH H. VACCA, 45 THORNTON ROAD, WALTHAM, MA 02154
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 STANLEY WAUGH, 20 BERNARD ROAD, WELLESLEY, MA 02181
 JED W. WEARE, 28 LEDGETREE ROAD, MEDFIELD, MA 02052
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 RICHARD WEISSEL, 39 MAC ARTHUR ROAD, NATICK, MA 01760
 MIKE WEISSEL, 39 MAC ARTHUR ROAD, NATICK, MA 01760
 BILL WELCH, 86 WOODLAND STREET, SOUTH NATICK, MA 01760
 VIRGINIA F. WILLIAMS, 40 COUNTRY CLUB ROAD,
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 E NK1S 894-3102
 T KALLDV 965-7205
 A N1AWX 878-7493
 G KALIYR 785-1801
 G N1CZT 444-0272
 T WA1ZLN 655-1928
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 E W1EOA 235-6239
 A W1KIM 235-1773
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 N KA1QIY 969-5467
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 E K1CLN 653-2347
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 A KB1ZP



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Joe Q. Ham

599 Megahertz Drive
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Spark Gap County

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